

PATENT
W&B Ref. No. : INF 2268-US
Atty. Dkt. No. INFN/WB0072

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) An integrated circuit, comprising:
a first circuit to be tested comprising an internal voltage line;
[[a]] an internal test circuit for testing the first circuit;
a test terminal coupled to the internal test circuit in order to provide an activation signal activating the test circuit to perform a test function; and
a switching device to selectively couple the test terminal to the internal voltage line after receiving the activation signal and during testing of the first circuit.
2. (Currently Amended) The integrated circuit of claim 1, wherein the test terminal is coupled to the internal voltage line to provide ~~an electrical signal~~ a supply voltage to the internal voltage line from an external source.
3. (Original) The integrated circuit of claim 1, wherein the switching device is further configured to isolate the test terminal from the test circuit after the activation of the test circuit.
4. (Previously Presented) The integrated circuit of claim 1, wherein the first circuit further comprises an internal voltage supply.
5. (Original) The integrated circuit of claim 4, further comprising another switching device responsive to the switching signal to selectively couple the internal voltage supply to the internal voltage line.
6. (Previously Presented) The integrated circuit of claim 5, wherein the switching devices are operated reciprocally so that when the test device is coupled to the internal voltage line the internal voltage supply is disconnected from the internal voltage line.
7. (Previously Presented) An integrated circuit, comprising:
a first circuit to be tested comprising an internal voltage line;

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a test circuit for testing the first circuit;
a test terminal coupled to the test circuit in order to provide an activation signal activating the test circuit to perform a test function; and
a switching device coupled to an output of the test circuit and configured to selectively couple the test terminal to the internal voltage line in response to a switching signal from the output.

8. (Original) The integrated circuit of claim 7, wherein the test circuit is configured to output the switching signal in response to receiving the activation signal.
9. (Original) The integrated circuit of claim 7, wherein the test terminal is coupled to the internal voltage line to provide an electrical signal to the internal voltage line from an external source.
10. (Previously Presented) The integrated circuit of claim 7, wherein the switching device is configured to isolate the test terminal from the test circuit after the activation of the test circuit.
11. (Original) The integrated circuit of claim 7, wherein the test circuit comprises a memory element to store an activation information item dependent on the application of the activation signal, and wherein the switching signal is issued by the test circuit in response to storing the activation information item.
12. (Original) The integrated circuit of claim 7, wherein the test circuit is configured to deactivate after the integrated circuit has been connected to a voltage supply.
13. (Previously Presented) The integrated circuit of claim 7, wherein the first circuit further comprises an internal voltage supply.
14. (Original) The integrated circuit of claim 13, further comprising another switching device responsive to the switching signal to selectively couple the internal voltage supply to the internal voltage line.

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15. (Original) The integrated circuit of claim 14, wherein the switching devices are operated reciprocally so that when the test device is coupled to the internal voltage line the internal voltage supply is disconnected from the internal voltage supply.

16. (Previously Presented) A test system for testing an integrated circuit, comprising:

a first circuit to be tested comprising an internal voltage line;

a test circuit for testing the first circuit;

a test terminal coupled to the test circuit in order to provide an activation signal activating the test circuit to perform a test function;

a switching device coupled to an output of the test circuit and configured to selectively couple the test terminal to the internal voltage line in response to a switching signal from the output; and

an external test device connected to the integrated circuit via the test terminal and comprising (i) a test module for issuing the activation signal; and (ii) a power supply for providing an electrical signal to the internal voltage line after the activation of the test circuit.

17. (Original) The test system of claim 16, wherein the external test device further comprises an external test device switch for selectively coupling the test module and power supply to the test terminal.

18. (Original) The test system of claim 16, wherein the test circuit is configured to output the switching signal in response to receiving the activation signal.

19. (Original) The test system of claim 16, wherein the switching device is further configured to isolate the test terminal from the test circuit after the activation of the test circuit.

20. (Previously Presented) The test system of claim 16, wherein the first circuit further comprises an internal voltage supply.

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21. (Original) The integrated circuit of claim 20, further comprising another switching device responsive to the switching signal to selectively couple the internal voltage supply to the internal voltage line.
22. (Original) The integrated circuit of claim 21, wherein the switching devices are operated reciprocally so that when the test device is coupled to the internal voltage line the internal voltage supply is disconnected from the internal voltage supply.
23. (Previously Presented) A method for testing an integrated circuit comprising a test circuit and a first circuit to be tested by the test circuit, the method comprising:
applying an activation signal to a test terminal of the integrated circuit while the test terminal is coupled to the test circuit and disconnected from an internal voltage line of the first circuit; and
activating a first switch to couple the test terminal to the internal voltage line after application of the activation signal, whereby the internal voltage line is provided with external power for the testing.
24. (Original) The method of claim 23, wherein the activation signal activates the test circuit to perform a test.
25. (Original) The method of claim 23, wherein the first switch is activated in response to an output signal issued by the test circuit in response to the activation signal.
26. (Original) The method of claim 25, further comprising activating a second switch in response to the output signal to disconnect an internal power supply from the internal voltage line.
27. (Original) The method of claim 23, further comprising disconnecting the test terminal from the test circuit upon activating the first switch.
28. (Original) The method of claim 27, activating a second switch in response to the output signal to disconnect an internal power supply from the internal voltage line.

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29. (Previously Presented) An integrated circuit comprising:
a first circuit to be tested comprising an internal voltage line;
a test terminal coupled to the test circuit in order to provide an activation signal;
a switching device that when activated selectively and directly couples the test terminal to the internal voltage line of the first circuit; and
a test circuit connected to the switching device via a control line, wherein the switching device is controlled by activation information.

30. (Previously Presented) An integrated circuit, comprising:
a first circuit to be tested comprising an internal voltage line;
a test circuit for testing the first circuit;
a test terminal coupled to the test circuit in order to provide an activation signal activating the test circuit to perform a test function; and
a switching device to selectively and directly couple the test terminal to the internal voltage line during testing of the first circuit, wherein the switching device is configured to isolate the test terminal from the test circuit after the activation of the test circuit.

31. (New) An integrated circuit, comprising:
a first circuit to be tested comprising an internal voltage line and internal voltage supply;
a test circuit for testing the first circuit;
a test terminal coupled to the test circuit in order to provide an activation signal activating the test circuit to perform a test function;
a first switching device to selectively couple the test terminal to the internal voltage line during testing of the first circuit; and
a second switching device responsive to the switching signal to selectively couple the internal voltage supply to the internal voltage line, wherein the switching devices are operated reciprocally so that when the test device is coupled to the internal voltage line the internal voltage supply is disconnected from the internal voltage line.

~~32~~
~~34.~~ (New) An integrated circuit, comprising:

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a first circuit to be tested comprising an internal voltage line and internal voltage supply;
an internal test circuit for testing the first circuit;
a test terminal coupled to the internal test circuit in order to provide an activation signal activating the test circuit to perform a test function; and
a switching device to selectively couple the test terminal to the internal voltage line during testing of the first circuit.

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